class topology: definitit 1 self, arr): Self. Modes = abor self. edges = [] det orda-disect-connection/self, p/2 p2, cost): self edges append ((bl, p2, cost)) Self. edges. append (( p2, p1, cost)) det dist vec- noute (self)

impost collections For node in self. nodes: dist = collections defaultdict (int) next. hep = (node: node) For at otn in self-nodes: if of n ! = node: list [otn] = 10000000 for &i in rouge (len(self nodes)): For edge in self. edges: suc, dest, cost = edge if dist [src] + cost [ dist [dest] dist [des1] = dist [sac) + (0st Self point ( node, dist, next hol) For lest, cost in dist items():
print ( next-hop[dest])

Modes = [A' (B' (C) D'/E']

+ = topology (nody) t- all-direct-correction (A, B, 1) t. all-direct \_ connection (A) (,5) t. add - direct convection (B.C.3) 5. orda-directs connection (B, E, 9) t. odd\_direct\_connection((1),4) t.add-direct\_ connection (D,E,2) t. dist- vec- route () nodes = input ("Enter nodes"). Split () t = Topology (nodes)
edges = int (input ("Edges:"))
t. dist\_ver-route().